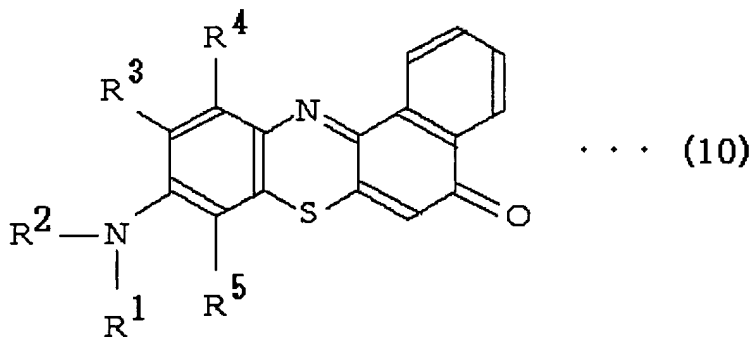


**AMENDMENTS TO THE CLAIMS, COMPLETE LISTING OF CLAIMS IN  
ASCENDING ORDER WITH STATUS INDICATOR**

Please amend the claims as follows.

Claims 1-5 (Canceled).

6. (Currently Amended) A Nile red luminescent compound emitting red light that has a structure represented by formula (10):



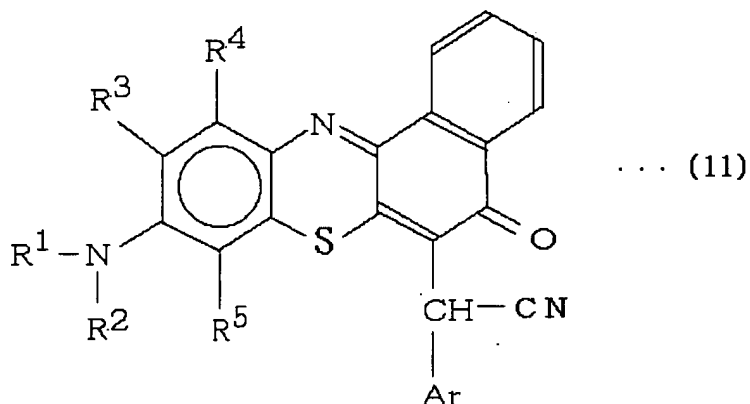
wherein R<sup>1</sup> forms -CH<sub>2</sub>CH<sub>2</sub>-CR<sup>6</sup>R<sup>7</sup>- together with R<sup>3</sup> (wherein the carbon atom of -CR<sup>6</sup>R<sup>7</sup>- moiety is bound to the benzene moiety of the formula (10), each of R<sup>6</sup> and R<sup>7</sup> is hydrogen atom or an alkyl group, and R<sup>6</sup> and R<sup>7</sup> may be the same or different from each other); R<sup>2</sup> forms -CH<sub>2</sub>CH<sub>2</sub>-CR<sup>8</sup>R<sup>9</sup>- together with R<sup>5</sup> (wherein the carbon atom of -CR<sup>8</sup>R<sup>9</sup>- moiety is bound to the benzene moiety of the formula (10), each of R<sup>8</sup> and R<sup>9</sup> is hydrogen atom or an alkyl group, and R<sup>8</sup> and R<sup>9</sup> may be the same or different from each other); ~~R<sup>3</sup> forms -CH<sub>2</sub>CH<sub>2</sub>-CR<sup>6</sup>R<sup>7</sup>- with R<sup>1</sup>, or forms with R<sup>4</sup> a naphthalene ring including as a part thereof the benzene moiety of the formula (10); and R<sup>4</sup> is a hydrogen atom forms with R<sup>3</sup> a naphthalene ring including as a part thereof the benzene moiety of the formula (10); and R<sup>5</sup> forms -CH<sub>2</sub>CH<sub>2</sub>-CR<sup>8</sup>R<sup>9</sup>- with R<sup>2</sup>.~~

7. (Canceled).

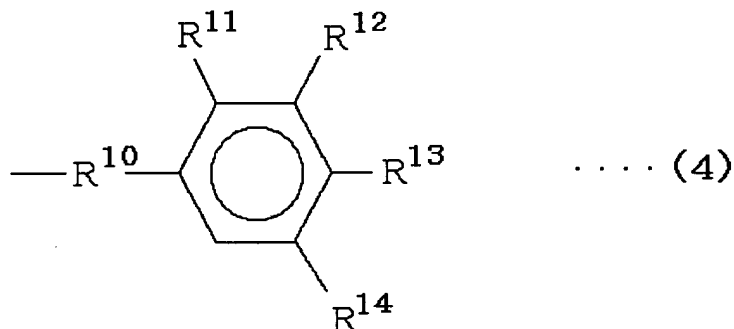
8. (Currently amended) A process of producing the Nile red luminescent compound according to claim 6 comprising reacting 1-naphthol with a 4-nitrosoaniline, the amino group of which is bonded with substituents R<sup>1</sup> and R<sup>2</sup>, wherein each of R<sup>1</sup> and R<sup>2</sup> is ~~hydrogen atom or an~~

alkyl group, and  $R^1$  and  $R^2$  may be the same or different from each other, to produce an intermediate; and reacting the intermediate with sulfur.

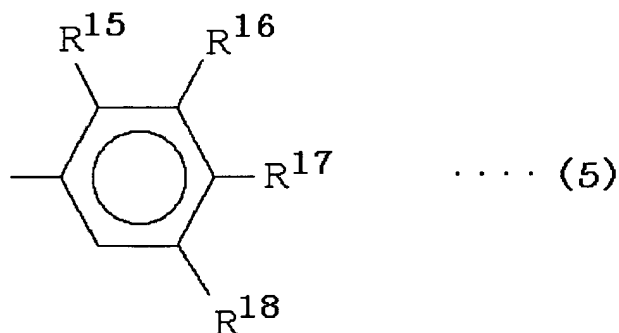
9. (Currently amended) A Nile red luminescent compound emitting red light that has a structure represented by formula (11):



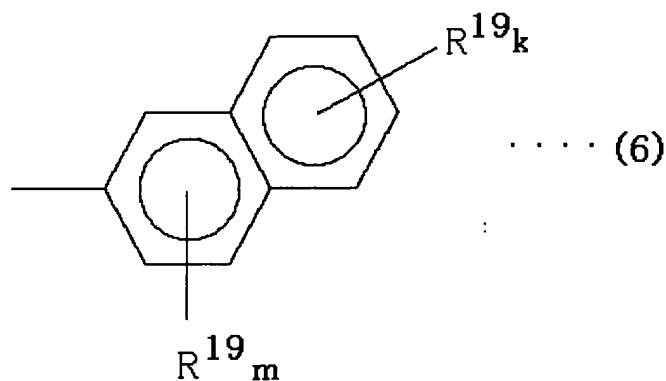
wherein  $R^1$  is hydrogen atom or an alkyl group, or forms  $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$  together with  $R^3$  (wherein the carbon atom of  $-\text{CR}^6\text{R}^7-$  moiety is bound to the benzene moiety of the formula (11), each of  $R^6$  and  $R^7$  is hydrogen atom or an alkyl group, and  $R^6$  and  $R^7$  may be the same or different from each other);  $R^2$  is hydrogen atom or an alkyl group, or forms  $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$  together with  $R^5$  (wherein the carbon atom of  $-\text{CR}^8\text{R}^9-$  moiety is bound to the benzene moiety of the formula (11), each of  $R^8$  and  $R^9$  is hydrogen atom or an alkyl group, and  $R^8$  and  $R^9$  may be the same or different from each other);  $R^3$  is hydrogen atom, forms  $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$  with  $R^1$ , or forms with  $R^4$  a naphthalene ring including as a part thereof, wherein the benzene moiety of the formula (11) is part of the naphthalene ring;  $R^4$  is hydrogen atom, or forms with  $R^3$  a naphthalene ring including as a part thereof, wherein the benzene moiety of the formula (11) is part of the naphthalene ring;  $R^5$  is hydrogen atom, or forms  $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$  with  $R^2$ ; and Ar means one of formulae (4), (6) and (7):



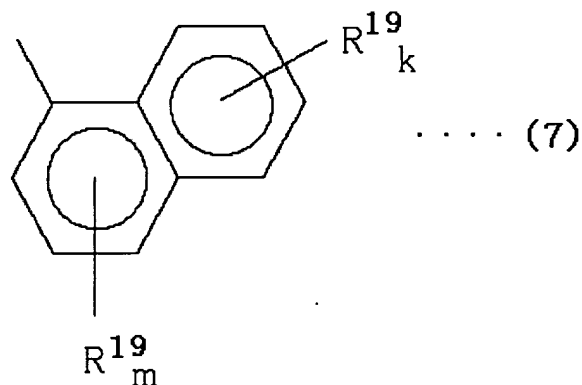
wherein  $R^{10}$  is a single chemical bond or methylene group;  $R^{11}$  is hydrogen atom, or forms  $-CF_2-O-CF_2-$  with  $R^{12}$ ;  $R^{12}$  is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms  $-CF_2-O-CF_2-$  with  $R^{11}$ , or forms  $-CF_2-O-CF_2-$  with  $R^{13}$ ;  $R^{13}$  is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms  $-CF_2-O-CF_2-$  with  $R^{12}$ , or is a group represented by formula (5); and  $R^{14}$  is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when  $R^{13}$  is hydrogen atom, and  $R^{14}$  is hydrogen atom when  $R^{13}$  is not hydrogen atom,



wherein  $R^{15}$  is hydrogen atom, or forms  $-CF_2-O-CF_2-$  with  $R^{16}$ ;  $R^{16}$  is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms  $-CF_2-O-CF_2-$  with  $R^{15}$ , or forms  $-CF_2-O-CF_2-$  with  $R^{17}$ ;  $R^{17}$  is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, or forms  $-CF_2-O-CF_2-$  with  $R^{16}$ ; and  $R^{18}$  is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when  $R^{17}$  is hydrogen atom, and  $R^{18}$  is hydrogen atom when  $R^{17}$  is not hydrogen atom,

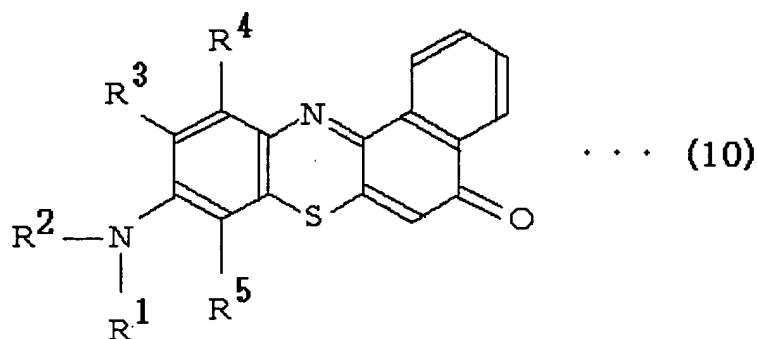


wherein  $\text{R}^{19}$  is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom;  $k$  is an integer of 1-4,  $m$  is an integer of 1-3, and all of the  $\text{R}^{19}$  groups may be the same or different from each other,

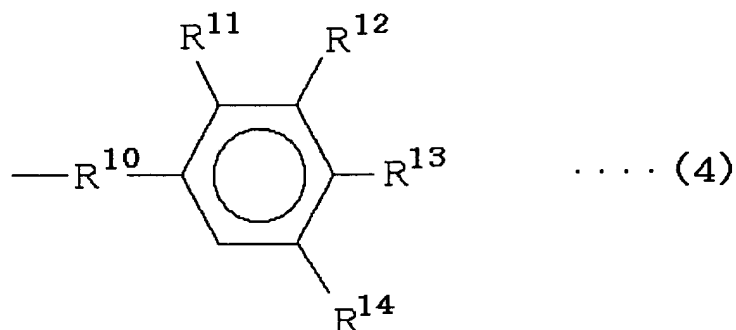


wherein  $\text{R}^{19}$  is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom;  $k$  is an integer of 1-4,  $m$  is an integer of 1-3, and all of the  $\text{R}^{19}$  groups may be the same or different from each other.

10. (Currently amended) A process of producing the Nile red luminescent compound emitting red light according to claim 9 comprising reacting the Nile red luminescent compound emitting red light represented by the formula (10):

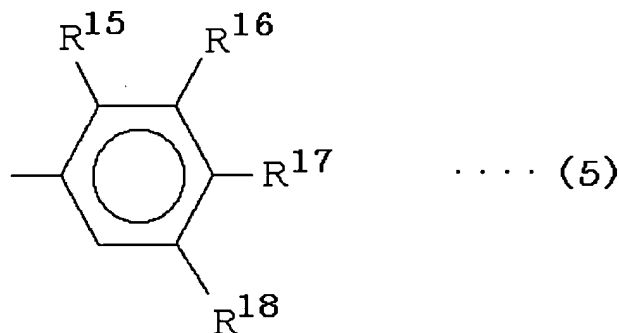


wherein  $R^1$  is hydrogen atom or an alkyl group, or forms  $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$  together with  $R^3$  (wherein the carbon atom of  $-\text{CR}^6\text{R}^7-$  moiety is bound to the benzene moiety of the formula (10), each of  $R^6$  and  $R^7$  is hydrogen atom or an alkyl group, and  $R^6$  and  $R^7$  may be the same or different from each other);  $R^2$  is hydrogen atom or an alkyl group, or forms  $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$  together with  $R^5$  (wherein the carbon atom of  $-\text{CR}^8\text{R}^9-$  moiety is bound to the benzene moiety of the formula (10), each of  $R^8$  and  $R^9$  is hydrogen atom or an alkyl group, and  $R^8$  and  $R^9$  may be the same or different from each other);  $R^3$  is hydrogen atom, forms  $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$  with  $R^1$ , or forms with  $R^4$  a naphthalene ring including as a part thereof, wherein the benzene moiety of the formula (10) is part of the naphthalene ring;  $R^4$  is hydrogen atom, or forms with  $R^3$  a naphthalene ring including as a part thereof, wherein the benzene moiety of the formula (10) is part of the naphthalene ring; and  $R^5$  is hydrogen atom, or forms  $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$  with  $R^2$ , with an electron attractive aromatic acetonitrile represented by the formula  $\text{NC}-\text{CH}_2-\text{Ar}$ , wherein Ar means one of formulae (4), (6) and (7):

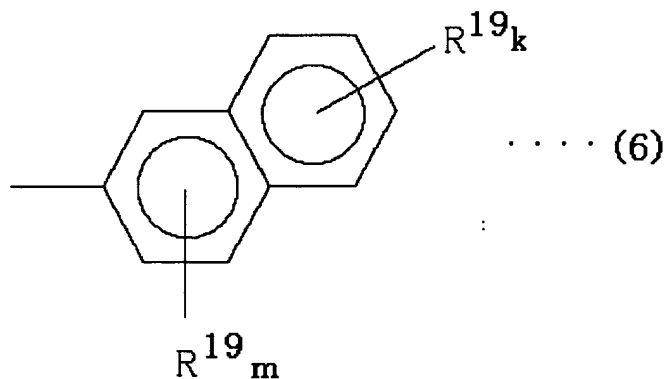


wherein  $R^{10}$  is a single chemical bond or methylene group;  $R^{11}$  is hydrogen atom, or forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $R^{12}$ ;  $R^{12}$  is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $R^{11}$ , or forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $R^{13}$ ;  $R^{13}$

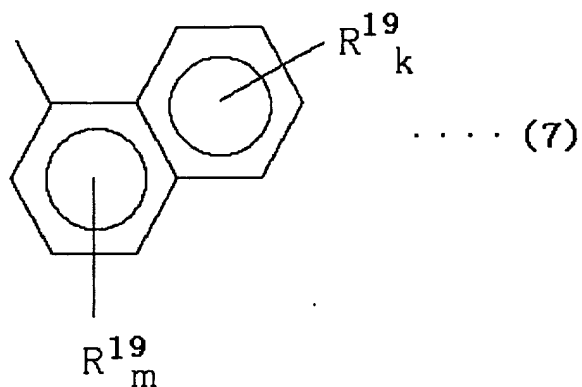
is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $\text{R}^{12}$ , or is a group represented by formula (5); and  $\text{R}^{14}$  is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when  $\text{R}^{13}$  is hydrogen atom, and  $\text{R}^{14}$  is hydrogen atom when  $\text{R}^{13}$  is not hydrogen atom,



wherein  $\text{R}^{15}$  is hydrogen atom, or forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $\text{R}^{16}$ ;  $\text{R}^{16}$  is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $\text{R}^{15}$ , or forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $\text{R}^{17}$ ;  $\text{R}^{17}$  is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, or forms  $-\text{CF}_2-\text{O}-\text{CF}_2-$  with  $\text{R}^{16}$ ; and  $\text{R}^{18}$  is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when  $\text{R}^{17}$  is hydrogen atom, and  $\text{R}^{18}$  is hydrogen atom when  $\text{R}^{17}$  is not hydrogen atom,



wherein  $\text{R}^{19}$  is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom;  $k$  is an integer of 1-4,  $m$  is an integer of 1-3, and all of the  $\text{R}^{19}$  groups may be the same or different from each other,



wherein  $R^{19}$  is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom;  $k$  is an integer of 1-4,  $m$  is an integer of 1-3, and all of the  $R^{19}$  groups may be the same or different from each other.

Claims 11-28 (Canceled).